

RECEIVED

JAN 16 2003

TECH CENTER 1600/2900

PATENT
Attorney Docket No. EXT-036


1630

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Shuber
SERIAL NO.: 09/514,865 GROUP NO.: 1634
FILING DATE: February 28, 2000 EXAMINER: S. Sakelaris
TITLE: Methods for Disease Detection

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, Washington, DC 20231 on this 13 day of January, 2003.


Thomas F. Hellenthal

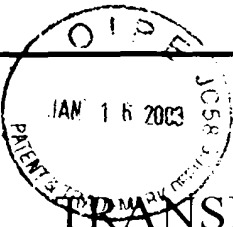
Commissioner for Patents
Washington, D.C. 20231

Sir:

Submitted herewith is/are:

1. Transmittal Form (1 page);
2. Fee Transmittal (1 page);
3. Check in the amount of \$180.00;
4. Supplemental Information Disclosure Statement (2 pages);
5. Form PTO-1449 (11 pages);
6. Copies of References A47-A112, B43-B111, C95-C174;
7. Return receipt postcard.

2562677



TRANSMITTAL FORM

Application Serial Number	09/514,865
Filing Date	February 28, 2000
First Named Inventor	Shuber
Group Art Unit	1634
Examiner Name	S. Sakelaris
Attorney Docket No.	EXT-036
Patent No.	Not applicable
Issue Date	Not applicable

RECEIVED
JAN 16 2003
TECH CENTER 15042991

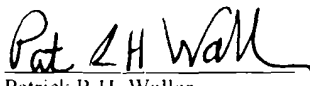
ENCLOSURES (check all that apply)

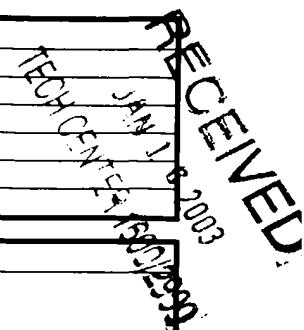
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form <input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____] <input type="checkbox"/> Petition for Extension of Time <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input checked="" type="checkbox"/> Supplemental Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553) <input type="checkbox"/> Formal Drawing(s) <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> CD(s) for large table or computer program <input type="checkbox"/> Amendment After Allowance <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <input type="checkbox"/> Appeal Brief (in triplicate) <input type="checkbox"/> Status Inquiry <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 <input type="checkbox"/> Additional Enclosure(s) (please identify below)
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

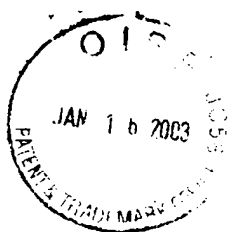
CORRESPONDENCE ADDRESS

Direct all correspondence to: Patent Administrator
Testa, Hurwitz & Thibault, LLP
High Street Tower
125 High Street
Boston, MA 02110
Tel. No.: (617) 248-7000
Fax No.: (617) 248-7100

SIGNATURE BLOCK

Respectfully submitted,

Patrick R.H. Waller
Attorney for Applicant(s)
Testa, Hurwitz & Thibault, LLP
High Street Tower
125 High Street
Boston, MA 02110
Date: January 13, 2003
Reg. No. 41,418
Tel. No.: (617) 248-7240
Fax No.: (617) 248-7100





PATENT
Attorney Docket No. EXT-036

RECEIVED
JAN 16 2003
TECH CENTER 1800/2900

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Shuber
SERIAL NO.: 09/514,865 GROUP NO.: 1634
FILING DATE: February 28, 2000 EXAMINER: S. Sakelaris
TITLE: Methods for Disease Detection

Commissioner for Patents
Washington, D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

In addition, Applicant notifies the Examiner of the following U.S. patent applications: U.S. Serial No. 09/545,162, filed April 7, 2000; U.S. Serial No. 09/455,950, filed December 7, 1999; U.S. Serial No. 10/149,464, filed June 7, 2002; and U.S. Serial No. 09/724,274, filed November 28, 2000. Furthermore, Applicant notifies the Examiner that U.S. Patent No. 6,084,091 is the English language counterpart of Foreign Patent Document Nos. 195 30 132C2, 195 30 132A1 and WO 97/07239; U.S. Patent No. 6,150,100 is the English language counterpart of Foreign Patent Document No. 197 12 332A1; U.S. Patent No. 6,448,002B1 is the English counterpart of Foreign Patent Document No. WO 98/08971; and an English language abstract for Foreign Patent Document No. 197 36 691A1 is contained in related Foreign Patent Document No. WO 99/10528.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):



- (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the

merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or

- ☒ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☒ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

Date: January 13, 2003
Reg. No. 41,418

Tel. No.: (617) 248-7240
Fax No.: (617) 248-7100

2546000_1

Respectfully submitted,

Pat R H Wall

Patrick R. H. Waller, Ph.D.
Attorney for Applicant(s)
Testa, Hurwitz, & Thibault, LLP
High Street Tower
125 High Street
Boston, Massachusetts 02110

FORM PTO - 1449

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

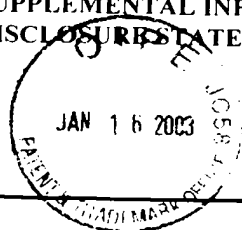
ATTY DOCKET NO.: EXT-036 (2457/32)

APPLICANT: Shuber

SERIAL NO.: 09/514,865

FILING DATE: February 28, 2000

GROUP: 1634



RECEIVED
JAN 16 2003
TECH CENTER 1600/2800

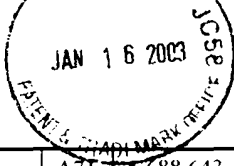
U.S. PATENT DOCUMENTS

EXAM INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A47	3,413,464	11/26/68	Kamentsky			04/29/65
	A48	4,101,279	7/18/78	Aslam			4/6/77
	A49	4,309,782	1/12/82	Paulin			9/11/80
	A50	4,358,535	11/9/82	Falkow <i>et al.</i>			12/8/90
	A51	4,445,235	5/1/84	Slover <i>et al.</i>			9/13/82
	A52	4,578,358	3/25/86	Oksman <i>et al.</i>			5/3/83
	A53	4,683,202	7/28/87	Mullis			10/25/85
	A54	4,705,050	11/10/87	Markham			10/2/85
	A55	4,735,905	4/5/88	Parker			8/15/86
	A56	4,935,342	6/19/90	Seligson <i>et al.</i>			12/1/86
	A57	5,149,506	9/22/92	Skiba <i>et al.</i>			8/9/91
	A58	5,200,314	4/6/93	Urdea			3/23/90
	A59	5,331,973	7/26/94	Fiedler <i>et al.</i>			3/15/93
	A60	5,416,025	5/16/95	Krepinsky, <i>et al.</i>			8/31/94
	A61	5,463,782	11/7/95	Carlson <i>et al.</i>			11/21/94
	A62	5,482,834	1/9/96	Gillespie			1/19/93
	A63	5,506,105	4/9/96	Haydock			3/22/94
	A64	5,538,851	7/23/96	Fach <i>et al.</i>			12/22/93
	A65	5,559,014	9/24/96	Estes <i>et al.</i>			6/7/95
	A66	5,599,662	2/4/97	Respass			2/17/95
	A67	5,612,473	3/18/97	Wu <i>et al.</i>			1/16/96
	A68	5,635,352	6/03/97	Urdea <i>et al.</i>			4/26/95
	A69	5,641,628	6/24/97	Bianchi			11/14/94
	A70	5,645,995	7/8/97	Kieback			4/12/96

EXAMINER

DATE CONSIDERED

FORM PTO - 1449

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

ATTY DOCKET NO.: EXT-036 (2457/32)

APPLICANT: Shuber

SERIAL NO.: 09/514,865

FILING DATE: February 28, 2000

GROUP: 1634

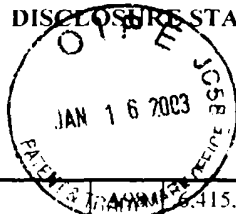
RECEIVED
JAN 16 2003
TECH CENTER 1600/2900

A71	5,688,643	11/18/97	Oka <i>et al.</i>			2/27/95
A72	5,846,710	12/8/98	Bajaj			8/6/93
A73	5,856,104	1/5/99	Chee <i>et al.</i>			3/7/97
A74	5,882,865	03/16/99	Vogelstein <i>et al.</i>			1/10/97
A75	5,888,778	3/30/99	Shuber			6/16/97
A76	5,910,407	6/8/99	Vogelstein <i>et al.</i>			8/26/94
A77	5,916,744	6/29/99	Taylor			3/14/94
A78	5,942,396	8/24/99	Shiff <i>et al.</i>			8/19/97
A79	5,952,178	9/14/99	Lapidus <i>et al.</i>			4/13/98
A80	5,976,800	11/2/99	Lau <i>et al.</i>			6/27/97
A81	6,020,137	2/1/00	Lapidus <i>et al.</i>			11/23/98
A82	6,037,465	3/14/00	Hillebrand <i>et al.</i>			12/16/96
A83	6,100,029	8/8/00	Lapidus <i>et al.</i>			12/4/97
A84	6,143,529	11/7/00	Lapidus <i>et al.</i>			3/26/99
A85	6,146,828	11/14/00	Lapidus			7/3/98
A86	6,177,251 B1	01/23/01	Vogelstein <i>et al.</i>			6/8/99
A87	6,203,993 B1	3/20/01	Shuber <i>et al.</i>			4/4/00
A88	6,214,187 B1	4/10/01	Hammond <i>et al.</i>			6/18/99
A89	6,214,558 B1	04/10/01	Shuber <i>et al.</i>			7/27/00
A90	6,238,927 B1	5/29/01	Abrams <i>et al.</i>			10/4/99
A91	6,251,660 B1	6/26/01	Muir <i>et al.</i>			11/25/98
A92	6,268,136 B1	7/31/01	Shuber <i>et al.</i>			11/23/98
A93	6,280,947 B1	8/28/01	Shuber <i>et al.</i>			8/11/99
A94	6,300,077 B1	10/9/01	Shuber <i>et al.</i>			4/4/00
A95	6,303,304 B1	10/16/01	Shuber <i>et al.</i>			2/2/99
A96	6,351,857 B2	3/5/02	Staon, III <i>et al.</i>			3/13/01
A97	6,406,857 B1	6/18/02	Shuber <i>et al.</i>			5/21/01

EXAMINER

DATE CONSIDERED

FORM PTO - 1449

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

ATTY DOCKET NO.: EXT-036 (2457/32)

APPLICANT: Shuber

SERIAL NO.: 09/514.865

FILING DATE: February 28, 2000

GROUP: 1634

RECEIVED
JAN 16 2003
TECH CENTER 1600/2900

		6.415.455 B1	7/9/02	Slaon, III <i>et al.</i>			12/17/01
	A99	6.428.964 B1	8/6/02	Shuber			3/15/01
	A100	6.475.738 B2	11/5/02	Shuber <i>et al.</i>			6/18/01
	A101	6.482.595 B2	11/19/02	Shuber <i>et al.</i>			8/27/01
	A102	2001/0018180A1	8/30/01	Shuber <i>et al.</i>			1/10/01
	A103	2002/0025525 A1	2/28/02	Shuber			5/30/01
	A104	2002/0110810 A1	8/15/02	Shuber			1/5/01
	A105	2002/0119469 A1	8/29/02	Shuber <i>et al.</i>			10/5/01
	A106	2002/0119472 A1	8/29/02	Lapidus <i>et al.</i>			10/15/01
	A107	2002/0132251 A1	9/19/02	Shuber			11/20/01
	A108	2002/0164631 A1	11/7/02	Shuber <i>et al.</i>			3/25/02
	A109	6.150.100	11/21/00	Ruschoff <i>et al.</i>			3/25/98
	A110	6.448.002B1	9/10/02	Hillebrand <i>et al.</i>			8/26/97
	A111	6.084.091	7/4/00	Muller <i>et al.</i>			8/14/96
	A112	6.503.718 B2	1/7/03	Shuber <i>et al.</i>			1/10/01

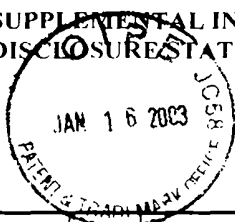
FOREIGN PATENT DOCUMENTS

EXAM INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
	B43	0 270 017A2	6/8/88	EP			11/27/87		Y
	B44	0 270 017A3	6/8/88	EP			11/27/87		Y
	B45	0 284 362 A3	9/28/88	EP			3/23/88		Y
	B46	0 391 565 B1	10/10/90	EP			3/19/90		Y
	B47	195 30 132C2	2/20/97	DE			8/16/95	A111 is English counterpart	N
	B48	197 12 332A1	10/1/98	DE			3/25/97	A109 is English counterpart	N

EXAMINER

DATE CONSIDERED

FORM PTO - 1449

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

ATTY DOCKET NO.: EXT-036 (2457/32)

APPLICANT: Shuber

SERIAL NO.: 09:514.865

FILING DATE: February 28, 2000

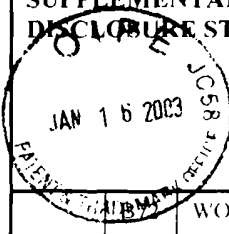
GROUP: 1634

RECEIVED
JAN 16 2003
TECH CENTER 1600/2900

B49	197 36 691A1	2/25/99	DE			8/22/97	B111 has English abstract	N
B50	2,327,497A	1/27/99	GB			7/15/98		Y
B51	WO 93/20235	10/14/93	PCT			3/31/93		Y
B52	WO 94/00603	1/6/94	PCT			6/28/93		Y
B53	WO 94/01447	1/20/94	PCT			7/1/93		Y
B54	WO 95/00669	1/5/95	PCT			6/22/94		Y
B55	WO 95/12606	5/11/95	PCT			11/5/93		Y
B56	WO 96/23895A	8/8/96	PCT			1/29/96		Y
B57	WO 96/29430A	9/26/96	PCT			3/13/96		Y
B58	WO 97/07239	2/27/97	PCT			8/14/96	A111 is English counterpart	N
B59	WO 97/19191A	5/29/97	PCT			11/15/96		Y
B60	WO 97/28450	8/7/97	PCT			12/20/96		Y
B61	WO 98/08971	3/5/98	PCT			8/26/97	A110 is English counterpart	N
B62	WO 98/39478	9/11/98	PCT			3/2/98		Y
B63	WO 98/58084	12/23/98	PCT			6/16/98		Y
B64	WO 99/07894	2/18/99	PCT			8/5/98		Y
B65	WO 99/07895	2/18/99	PCT			4/8/98		Y
B66	WO 99/20798	4/29/99	PCT			10/22/98		Y
B67	WO 99/26724	6/3/99	PCT			11/25/98		Y
B68	WO 99/28507	6/10/99	PCT			12/3/98		Y
B69	WO 99/45374	9/10/99	PCT			3/3/99		Y
B70	WO 99/53316	10/21/99	PCT			4/13/99		Y
B71	WO 99/55912	11/4/99	PCT			4/23/99		Y

EXAMINER

DATE CONSIDERED

FORM PTO - 1449				ATTY DOCKET NO.: EXT-036 (2457/32)				
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				APPLICANT: Shuber				
				SERIAL NO.: 09/514,865				
				FILING DATE: February 28, 2000				
				GROUP: 1634				
		WO 99/66077	12/23/99	PCT			6/16/99	Y
	B73	WO 99/66078	12/23/99	PCT			6/18/99	Y
	B74	WO 99/66079	12/23/99	PCT			6/18/99	Y
	B75	WO 00/09751	2/24/00	PCT			8/10/99	Y
	B76	WO 00/11215	3/2/00	PCT			8/10/99	Y
	B77	WO 00/31298	6/2/00	PCT			11/17/99	Y
	B78	WO 00/31303	6/2/00	PCT			11/22/99	Y
	B79	WO 00/31305	6/2/00	PCT			11/23/99	Y
	B80	WO 00/32820	6/8/00	PCT			11/23/99	Y
	B81	WO 00/50640	8/31/00	PCT			1/24/00	Y
	B82	WO 00/50870	8/31/00	PCT			2/25/00	Y
	B83	WO 00/58514A3	10/5/00	PCT			3/24/00	Y
	B84	WO 00/60118	10/12/00	PCT			3/31/00	Y
	B85	WO 00/61808A3	10/19/00	PCT			4/7/00	Y
	B86	WO 00/66005	11/9/00	PCT			4/26/00	Y
	B87	WO 00/70096	11/23/00	PCT			5/18/00	Y
	B88	WO 00/70096 A3	11/23/00	PCT			5/18/00	Y
	B89	WO 01/18252A2	3/15/01	PCT			9/8/00	Y
	B90	WO 01/42502A2	6/14/01	PCT			9/8/00	Y
	B91	WO 01/42503A2	6/14/01	PCT			11/28/00	Y
	B92	WO 01/42781A2	6/14/01	PCT			12/7/00	Y
	B93	WO 01/64950A2	9/7/01	PCT			2/27/01	Y
	B94	WO 01/64950A3	9/7/01	PCT			2/27/01	Y
	B95	WO 01/11083 A2	2/15/01	PCT			8/9/00	Y
	B96	WO 01/11083 A3	2/15/01	PCT			8/9/00	Y
	B97	WO 02/055740 A2	7/18/02	PCT			1/10/02	Y
	B98	WO 02/059379 A2	8/1/02	PCT			1/4/02	Y

EXAMINER

DATE CONSIDERED

FORM PTO - 1449

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

JAN 16 2003

ATTY DOCKET NO.: EXT-036 (245742)

APPLICANT: Shuber

SERIAL NO.: 09/514,865

FILING DATE: February 28, 2000

GROUP: 1634

RECEIVED
JAN 16 2003
TECH CENTER 1600/2900

B99	WO 02/074995 A1	9/26/02	PCT			3/15/02		Y
B100	WO 02/092858 A2	11/21/02	PCT			2/28/02		Y
B101	AU199942333 A1	9/30/99	AU			7/28/99		Y
B102	711754	7/17/97	AU			12/20/96		Y
B103	704696	8/22/97	AU			12/20/96		Y
B104	720489	9/30/99	AU			7/28/99		Y
B105	744746	1/4/99	AU			6/16/98		Y
B106	745862	9/22/98	AU			3/2/98		Y
B107	2,211,702	5/25/99	CA			12/20/96		Y
B108	2,228,769	2/27/97	CA			8/14/96		Y
B109	3325270	9/17/02	JP			12/20/96	Abstract in English	N
B110	195 30 132A1	2/20/97	DE			8/16/95	A111 is English counterpart	N
B111	WO 99/10528	3/4/99	PCT			8/22/97	Abstract in English	N

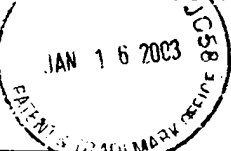
OTHER ART, JOURNAL ARTICLES, ETC.

EXAM INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
C95	Allen et al. (1997). "Morphological and biochemical characterization and analysis of apoptosis." <i>J. Pharm. & Toxicol. Methods</i> , Vol. 37, No. 4, pp. 215-28.
C96	Ambrosini et al. "A novel anti-apoptosis gene, survivin, expressed in cancer and lymphoma" <i>Nature Medicine</i> , Vol. 3, No. 8, pp. 917-921, August 1997.
C97	Anker et al., (1999). "Detection of Circulating Tumour DNA in the Blood (plasma/serum) of Cancer Patients." <i>Cancer and Metastasis Reviews</i> , Vol. 18, pp. 65-73.
C98	Arber et al. "A K-ras Oncogene Increases Resistance to Sulindac-Induced Apoptosis in Rat Enterocytes." <i>Gastroenterology</i> , Vol. 113, No. 6, pp. 1892-1900, December 1997.
C99	Azhikina et al. (1996). "Factors Affecting the Priming Efficiency of Short Contiguous Oligonucleotide Strings in the Primer Walking Strategy of DNA Sequencing." <i>DNA Sequence</i> 6:211-16.
C100	Barry et al. "Identification of Deoxyribonuclease II as an Endonuclease Involved in Apoptosis," <i>Archives of Biochemistry and Biophysics</i> , Vol. 300, No. 1, pp. 440-448, January 1993.

EXAMINER

DATE CONSIDERED

FORM PTO - 1449

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

ATTY DOCKET NO.: EXT-036 (2457/32)

APPLICANT: Shuber

SERIAL NO.: 09/514,865

FILING DATE: February 28, 2000

GROUP: 1634

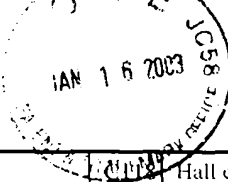
RECEIVED
JAN 16 2003
TECH CENTER 1600/2900

C101	Bernstein et al. "A Bile Acid-induced Apoptosis Assay for Colon-Cancer Risk and Associated Quality Control Studies." <i>Cancer Research</i> , Vol. 59, pp. 2353-2357, May 15, 1999.
C102	Boom et al., (March 1990) "Rapid and Simple Method for Purification of Nucleic Acids" <i>J. Clin. Microbiol.</i> , Vol. 28, No. 3, pp. 495-503.
C103	Croitoru et al. "Reduce, Reuse, and Recycle: Shedding Light on Shedding Cells." <i>Gastroenterology</i> , Vol. 105, pp. 1243-1246, October 1993.
C104	Cawkwell et al. (1994). "Frequency of allele loss of DCC, p53, RB1, WT1, NF1, NM23 and APC/MCC in colorectal cancer assayed by fluorescent multiplex polymerase chain reaction." <i>Brit. J. Can.</i> , Vol. 70, No. 5, pp. 813-818.
C105	Chen et al., (July 15, 1996). "Detection of Single-Base Mutations by a Competitive Mobility Shift Assay," <i>Analytical Biochemistry</i> , US, Academic Press, Vol. 239, No. 1, pp. 61-69.
C106	Coombs et al., (May 21, 1996) "A Rapid, Simple, and User-Friendly Method for DNA Extraction from Clinical Stool Samples," <i>ASM 1996 General Meeting</i> , New Orleans, LA.
C107	Dennin, (1979). "DNA of Free and Complexed Origin in Human Plasma: Concentration and Length Distribution," <i>Klin. Wochenschr.</i> , Vol. 57, pp. 451-456.
C108	Depraetere, " 'Eat me' Signals of apoptotic bodies," <i>Nature Cell Biology</i> , Vol. 2, pg. E104, June 2000.
C109	Ditkoff et al. (1996). "Detection of circulating thyroid cells in peripheral blood." <i>Surgery</i> Vol. 120, No. 6, pp 959-65.
C110	Eads et al., (1999) "CpG Island Hypermethylation in Human Colorectal Tumors Is Not Associated with DNA Methyltransferase Overexpression." <i>Cancer Research</i> , Vol. 59, No. 10, pp 2302-2306.
C111	Echeverria et al., (September 1985) "DNA Hybridization in the Diagnosis of Bacterial Diarrhea." <i>Clinics in Laboratory Medicine</i> , Vol. 5, No. 3, September 1985, pp. 447-462.
C112	Emlen et al., (1984). "Effect of DNA Size and Strandedness on the <i>in vivo</i> Clearance and Organ Localization of DNA," <i>Clin. exp. Immunol.</i> , Vol. 56, pp. 185-192.
C113	Finkel "Does Cancer Therapy Trigger Cell Suicide?," <i>Science</i> , Vol. 286, pp.2256-2258, December 17, 1999.
C114	Fournie et al., (1995). "Plasma DNA as a Marker of Cancerous Cell Death. Investigations in Patients Suffering from Lung Cancer and in Nude Mice Bearing Human Tumours." <i>Cancer Letters</i> , Vol. 91, pp. 221-227.
C115	Garewal et al. "Reduced Bile Acid-induced Apoptosis in 'Normal' Colorectal Mucosa: A Potential Biological Marker for Cancer Risk" <i>Cancer Research</i> , Vol. 56, pp. 1480-1483, April 1, 1996.
C116	Giacona, et al. (1998). "Cell-free DNA in Human Blood plasma: Length Measurements in Patients with Pancreatic Cancer and Healthy Controls." <i>Pancreas</i> , Vol. 17, No. 1, pp. 89-97.
C117	Halim, "Apoptosis: 'Orderly Dismantling'" <i>The Scientist</i> , pg. 19, February 7, 2000.

EXAMINER

DATE CONSIDERED

FORM PTO - 1449

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

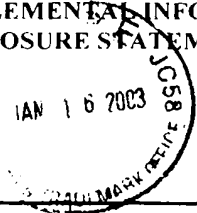
ATTY DOCKET NO.: EXT-036 (245)
 APPLICANT: Shuber
 SERIAL NO.: 09:514,865
 FILING DATE: February 28, 2000
 GROUP: 1634

RECEIVED
 JAN 16 2003
 TECH CENTER 1600/2900

	Hall et al. "Regulation of cell number in the mammalian gastrointestinal tract: the importance of apoptosis," <i>Journal of Cell Science</i> , Vol. 107, pp. 3569-3577, 1994.
C119	Helts. "To Die or Not to Die, An Overview of Apoptosis and Its Role in Disease," <i>JAMA</i> , Vol. 279, No. 4, pp. 300-307, January 28, 1998.
C120	Hibi et al., (April 1998), "Molecular Detection of Genetic Alterations in the Serum of Colorectal Cancer Patients," <i>Cancer Research</i> , Vol. 58, pp. 1405-1407.
C121	Hitchcock. "Actin- Deoxyribonuclease I Interaction," <i>The Journal of Biochemical Chemistry</i> , Vol. 255, No. 12, pp. 5668-5673, 1980.
C122	Hunsaker, et al. (1989), "Use of Reversible Target Capture to Detect Subattomole Quantities of Target Nonradioisotopically in Crude Specimens in One Hour," <i>Abstracts of the 89th Meeting of the American Society for Microbiology</i> , D-169, Pg. 110.
C123	Ito et al., (1999), "Profile of Circulating Levels of Interleukin-1 Receptor Antagonist and Interleukin-6 in Colorectal Cancer Patients," <i>Scand. J. Gastroenterol.</i> , Vol. 11, pp. 1139-1143.
C124	Iwanaga et al. "A Novel Mechanism for Disposing of Effete Epithelial Cells in the Small Intestine of Guinea Pigs," <i>Gastroenterology</i> , Vol. 105, No. 4, pp. 1089-1097, 1993.
C125	Kataoka et al. "Association of high molecular weight DNA fragmentation with apoptotic or non-apoptotic cell death induced by calcium ionophore" <i>FEBS Letters</i> , Vol. 364, pp. 264-267, 1995.
C126	Kawasaki et al. "Inhibition of Apoptosis by Survivin Predicts Shorter Survival Rates in Colorectal Cancer," <i>Cancer Research</i> , Vol. 58, pp. 5071-5074, November 15, 1998.
C127	Kishi et al. "Human Serum Deoxyribonuclease I (DNase I) Polymorphism: Pattern Similarities among Isozymes from Serum, Urine, Kidney, Liver, and Pancreas," <i>Am. J. Hum. Genet.</i> , Vol. 47, pp. 121-126, 1990.
C128	Komano et al. "Homeostatic regulation of intestinal epithelia by intraepithelial $\gamma\delta$ T cells" <i>Proc. Natl. Acad. Sci. USA</i> 92, Vol. 92, pp. 6147-6151, June 1995.
C129	Lefrere et al., (October 1998) "Screening Blood Donations for Viral Genomes: Multicenter Study of Real-Time Simulation Using Pooled Samples on the Model of HCV RNA Detection" <i>Transfusion</i> , Vol. 38, pp. 915-923
C130	Leon et al., (March 1977), "Free DNA in the Serum of Cancer Patients and the Effect of Therapy," <i>Cancer Research</i> , Vol. 37, pp. 646-650.
C131	Li et al., (August 1996) "Rapid Detection of Mycobacterium Avium in Stool Samples from AIDS Patients by Immunomagnetic PCR," <i>J. Clin. Microbiol.</i> , Vol. 34, No. 8, pp. 1903-1907.
C132	Lipkin, "Biomarkers of Increased Susceptibility to Gastrointestinal Cancer: New Application to Studies of Cancer Prevention in Human Subjects," <i>Cancer Research</i> , Vol. 48, pp. 235-245, January 15, 1998.
C133	Maebo, (1990), "Plasma DNA Level as a Tumor Marker in Primary Lung Cancer," Japanese: English abstract attached.

EXAMINER

DATE CONSIDERED

FORM PTO - 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT 		ATTY DOCKET NO.: EXT-036 (2457/32) APPLICANT: Shuber SERIAL NO.: 09/514,865 FILING DATE: February 28, 2000 GROUP: 1634	
	C134	Mannherz et al. "A Specific 1:1 G-Actin: DNAase I Complex Formed by the Action of DNAase I on F-Actin," <i>FEBS Letters</i> , Vol. 60, No. 1, pp. 34-38, December 1975.	
	C135	Mannherz et al. "The Interaction of Bovine Pancreatic Deoxyribonuclease I and Skeletal Muscle Actin" <i>Eur. J. Biochem</i> , Vol. 104, pp. 367-379, 1980.	
	C136	Metspalu A., "Arrayed Primer Extension (APEX) for Mutation Detection Using Gene-Specific DNA Chips" <i>European Society of Human Genetics</i> , Vol. 6, No. Sup 1, 1998, page P1.36 XP000892253 Abstract.	
	C137	Morandi et al., (June 1998) "Detection of HIV Type 1 RNA in Pools of Sera Negative for Antibiotics to HIV-1 and HIV-2," <i>J. of Clinical Microbiology</i> , Vol. 36, No. 6, pages 1534-1538.	
	C138	Morrissey et al., (May 14-18, 1989) "Novel Hybridization Technique with Subattomole Sensitivity in Specimens" <i>American Society for Microbiology</i> , 89 th Annual Meeting, Abstract D-168, p. 110.	
	C139	Morrissey, et al., (September 1989) "Nucleic Acid Hybridization Assays Employing dA-Tailed Capture Probes," <i>Analytical Biochemistry</i> , Vol. 181, No. 2, pp. 345-359.	
	C140	Morrissey, D. and Collins, M., (June 1989) "Nucleic Acid Hybridization Assays Employing dA-Tailed Capture Probes. Single Capture Methods," <i>Mol. And Cell. Probes</i> , Vol. 3, No. 2, pp. 189-207.	
	C141	Mulcahy et al. (1998). "A prospective study of K-ras mutations in the plasma of pancreatic cancer patients," <i>Clin. Cancer Res.</i> , Vol. 4, pp 271-75.	
	C142	Olive, (February 1989) "Detection of Enterotoxigenic <i>Escherichia coli</i> after Polymerase Chain Reaction Amplification with a Thermostable DNA Polymerase," <i>Journal of Clinical Microbiology</i> , Vol. 27, No. 2, pp. 261-265.	
	C143	Paabo et al., (1988) "Mitochondrial DNA Sequences from a 7000-year old Brain," <i>Nucleic Acids Research</i> , Vol. 16, No. 20, pp. 9775-9787.	
	C144	Pacek et al., (May 1993) "Determination of Allele Frequencies at Loci with Length Polymorphism by Quantitive Analysis of DNA Amplified from Pooled Samples," <i>PCR Methods and Applications</i> , Vol. 2, No. 4, pp. 313-317.	
	C145	Park et al. "Detergent and Enzyme Treatment of Apoptotic Cells for Observation of DNA Fragmentation" <i>BioTechniques</i> , Vol. 24, No. 4, pp. 558-559, 1998.	
	C146	Payne et al. "Role of Apoptosis in Biology and Pathology: Resistance to Apoptosis in Colon Carcinogenesis" <i>Ultrastructural Pathology</i> , Vol. 19, pp. 221-248, 1995.	
	C147	Peitsch et al. "Characterization of the endogenous deoxyribonuclease involved in nuclear DNA degradation during apoptosis (programmed cell death)," <i>The EMBO Journal</i> , Vol. 12, No. 1, pp. 371-377, 1993	
	C148	Peitsch et al. "Functional characterisation of serum DNase I in MRI," <i>Biochemical and Biophysical Research Communications</i> , Vol. 186, No. 2, pp. 739-745, July 31, 1992.	
	C149	Peitsch et al. "The apoptosis endonucleases: cleaning up after cell death?," <i>Trends in Cell Biology</i> , Vol. 4, pp. 37-41, February 4, 1994.	

EXAMINER

DATE CONSIDERED

FORM PTO - 1449

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

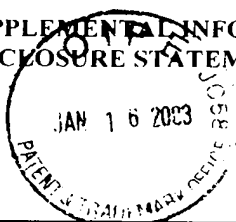
ATTY DOCKET NO.: EXT-036 (2457/32)

APPLICANT: Shuber

SERIAL NO.: 09/514,865

FILING DATE: February 28, 2000

GROUP: 1634



RECEIVED
JAN 16 2003
TECH. CENTER 1300/2903

C150	Polzar et al. "Distribution of deoxyribonuclease I in rat tissues and its correlation to cellular turnover and apoptosis (programmed cell death)." <i>European Journal of Cell Biology</i> , Vol. 64, pp. 200-210, 1994.
C151	Polzar et al. "Overexpression of deoxyribonuclease I (DNase I) transfected into COS-cells: its distribution during apoptotic cell death." <i>European Journal of Cell Biology</i> , Vol. 62, pp. 397-405, 1993.
C152	Raptis et al., (December 1980), "Quantitation and Characterization of Plasma DNA in Normals and Patients with Systemic Lupus Erythematosus," <i>J. Clin. Invest.</i> , Vol. 66, pp. 1391-1399.
C153	Rinaldy et al. (1988), "Gene Cloning Using cDNA Libraries in a Differential Competition Hybridization Strategy: Application to Cloning XP-A Related Genes," <i>DN.A</i> Vol. 7, No. 8, pp. 563-70.
C154	Ruzicka et al., (1992) "Apolipoprotein Allele Specific PCR: Large-Scale Screening of Pooled Blood Samples," <i>J. of Lipid Research</i> , Vol. 33, pp. 1563-1567.
C155	Saitoh et al. "Analysis of Bel-2, Bax and Survivin genes in uterine cancer", <i>International Journal of Oncology</i> , Vol. 15, pp. 137-141, 1999.
C156	Sales et al., (July 31, 1999), "Blood Dissemination of Colonic Epithelial Cells During No-touch Surgery for Rectosigmoid Cancer," <i>The Lancet</i> , Vol. 354, p. 392.
C157	Samiotaki et al. (1994), "Dual-Color Detection of DNA Sequence Variants by Ligase-Mediated Analysis," <i>Genomics</i> 20:238-42.
C158	Schmitt et al. (1998), "Bax-alpha promotes apoptosis induced by cancer chemotherapy and accelerates the activation of caspase 3-like cysteine proteases in p53 double mutant B lymphoma Namalwa cells," <i>Cell Death & Diff.</i> , Vol. 5, No. 6, pp 506-16.
C159	Sen "Programmed Cell Death: Concept, Mechanism and Control" <i>Biol. Rev.</i> , Vol. 67, pp. 287-319, 1992.
C160	Shapiro et al., (June 1, 1983), "Determination of Circulating DNA Levels in Patients with Benign or Malignant Gastrointestinal Disease" <i>Cancer</i> , Vol. 51, No. 11, pp. 2116-2120.
C161	Shaw et al., (1998) "Allele Frequency Distribution in Pooled DNA Samples. Applications to Mapping Complex Disease Genes," <i>Genome Research</i> , Vol. 8, pp. 111-123.
C162	Sidransky, D. (1997) "Nucleic acid-based methods for the detection of cancer," <i>Science</i> , Vol. 278, No. 5340, pp. 1054-1058.
C163	Skoletsky et al. (1998) "High frequency of detecting amplifiable DNA in stools of apparently normal individuals," <i>Gastroenterology</i> , Vol. 114, No. 4, p A681.
C164	Sträter et al. "Rapid Onset of Apoptosis In Vitro Follows Disruption of B1 Integrin/Matrix Interactions in Human Colonic Crypt Cell" <i>Gastroenterology</i> , Vol. 110, No. 6, pp. 1776-1784, June 1996.
C165	Stroun et al., (1987), "Isolation and Characterization of DNA from the Plasma of Cancer Patients," <i>Eur. J. Cancer Clin. Oncol.</i> , Vol. 23, No. 6, pp. 707-712.
C166	Tompkins et al., (1986) "Approaches to the Detection of Enteric Pathogens, Including <i>Campylobacter</i> , using Nucleic Acid Hybridization," <i>Diagn. Microbiol. Infect. Dis.</i> , Vol. 4, pp. 71S-78S.

EXAMINER

DATE CONSIDERED

FORM PTO - 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT JAN 16 2003		ATTY DOCKET NO.: EXT-036 (245232) APPLICANT: Shuber SERIAL NO.: 09/514,865 FILING DATE: February 28, 2000 GROUP: 1634
C167	Tsujitani et al. "Apoptotic Cell Death and Its Relationship to Carcinogenesis in Colorectal Carcinoma." <i>Cancer Supplement</i> , Vol. 77, No. 8, pp. 1711-1716, April 15, 1996.	
C168	Vera-Garcia, et al., (May 16-20 1993) "Development and Evaluation of an Instrument Designed to Reproducibly Release Nucleic Acids from Microorganisms" <i>American Society for Microbiology: Polymerase Chain Reaction</i> , 93 rd General Meeting, Session 214, Abstract C-217, p. 484.	
C169	Vet et al., (1998) "Comparative analysis of p53 mutations in bladder washings and histologic specimens" <i>Am. J. Clin. Path.</i> , Vol. 110, No. 5, pp. 647-652.	
C170	Vogelstein et al., (1979) "Preparative and Analytical Purification of DNA from Agarose," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 76, No. 2, pp. 615-619.	
C171	Wagner et al. "Regulation of Gastric Epithelial Cell Growth by Helicobacter pylori: Evidence for a Major Role of Apoptosis." <i>Gastroenterology</i> , Vol. 113, No. 6, pp. 1836-1847, December 1997.	
C172	Walsh et al., (1991) "Chelex® 100 as a Medium for Simple Extraction of DNA for PCR-Based Typing from Forensic Material," <i>BioTechniques</i> , Vol. 10, No. 4, pp. 506-513.	
C173	Walton et al., (1997) "A PCR-Based Method for Detecting Rare Genotypes in Large Samples of Individuals," <i>Mol. Ecology</i> , Vol. 6, No. 2, pp. 195-197.	
C174	Zhang et al. "Quantitative determination of apoptotic death in cultured human pancreatic cancer cells by propidium iodide and digitonin," <i>Cancer Letters</i> , Vol. 142, pp. 129-137, 1999.	

2545288 1

EXAMINER	DATE CONSIDERED
----------	-----------------